EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Myron Wyche on February 26, 2009.

The application has been amended as follows:

Claim 1 has been amended as follows:

- - 1. (Currently amended) A method of transforming a motion in a volume screw machine, said machine having at least two sets of conjugated elements (80, 70; 60, 50), each of the sets further comprising:

a first element (80, 60) having an inner screw surface (180, 160) centered around a first axis [(] passing through center O [)]; and

a second element (70, 50) having an outer screw surface (270, 250) centered around a second axis [(] passing through centers Om_2, Om_1 [)] **of the respective set of conjugate elements**,

wherein the first element has a symmetry order $n_f=3$ and the second element has symmetry order $n_m=2$,

wherein an inner set (50, 60) of the conjugated elements is placed coaxially in at least one cavity of the second element of an outer set (80, 70) of conjugated elements,

wherein the first and second axes [(] passing through **the** centers O, [;] Om$_1$**, and**

Om$_2$ [)] are parallel and distances E 1 and E2, **from the** respective[ly] **second axes**,

[and] are offset in opposite directions relative to the center O,

wherein at least one of said first and second elements of each set is rotatable

about its axis, said method comprising:

creating a rotary motion of at least one element in each of the sets. - -

Claim 4 has been amended as follows:

- - 4. (Currently amended) The method of claim 1, wherein

said first axes of each set of conjugated elements coincide, whereas the

second axes are non-coinciding, or that said second axes of each set of

conjugated elements coincide whereas the first axes are non-coinciding,

and that the non-coinciding axes [(] passing through **the** centers Om$_1$, Om$_2$ [)] are

rotated in such a manner about the coinciding axes [(] passing through **the center**

~~centre~~ O [)] as to maintain the distance relationship of the non-coinciding axes [(]

passing through **the** centers Om$_1$, Om$_2$ [)] with regard to each other and with regard to

the coinciding axes [(] passing through **the** center O [)]. - -

Claim 14 has been amended as follows:

- - 14. (Currently Amended) A method of transforming a motion in a volume

screw machine, said machine having at least two sets of conjugated elements, each set

comprising:

a first element having an inner screw surface centered around a first axis [(]

passing through center O [)]; and

a second element having an outer screw surface centered around a second axis

[(] passing through centers Om_2, Om_1 [)] **of the respective set of conjugate elements**,

wherein the first element has a symmetry order $n_f=3$ and the second element has

symmetry order $n_m=2$,

wherein an inner set of the conjugated elements is placed coaxially in at least

one cavity of the second element of an outer set conjugated elements,

wherein the first and second axes [(] passing through **the** centers O, [;] Om_1**, and**

Om_2 [)] are parallel and distances E 1 and E2, **from the** respective[ly] **second axes**,

[and] are offset in opposite directions relative to the center O,

wherein at least one of said elements of each set is rotatable about its axis, said

method comprising:

creating a rotary motion of at least one element in each set of conjugated

elements, each set further comprising an element centered about an axis which

coincides with a principal axis of the machine, the respective second element of each

set being centered about an axis which is not coinciding with the principal axis, and the

non-coinciding axis being rotated in such a manner about the principal axis as to

maintain the distance relationship of the non- coinciding axes with regard to each other

and with regard to the principal axis. - -

Communication

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to MARY A. DAVIS whose telephone number is (571)272-

9965. The examiner can normally be reached on Monday thru Thursday; 5:30 am -

4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thomas Denion can be reached on (571) 272-4859. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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